Amendments to the Claims:

Following is a complete listing of the claims pending in the application, as amended:

1. (Original) A method of generating tethered extracellular or intracellular domains of transmembrane proteins comprising:

(a) preparing an expression vector comprising a 5' signal sequence, a purification epitope tag, a sequence coding for the extracellular domain of a membrane protein, and a 3' anchor sequence; and

transfecting mammalian cells with said expression vector to generate an anchor tethered protein targeted to the extracellular domain of a plasma membrane; or

(b) preparing an expression vector comprising a 5' myristoylation encoding sequence, a sequence coding for the intracellular domain of a membrane protein, and a 3' purification epitope tag; and

transfecting mammalian cells with said expression vector to generate a myristoylated tethered protein targeted to the intracellular domain of a membrane.

2. (Original) The method according to claim 1, wherein said 3' anchor sequence is a GPI anchor sequence.

3. (Original) The method according to claim 2, wherein said GPI-anchor sequence comprises the 32 terminal amino acids of the GPI-anchoring sequence.

4. (Currently amended) The method according to claim 1, wherein said mammalian cells are ~~selected from the group consisting of~~ CHO ~~or HEK-293~~ cells.

5. (Currently amended) The method according to claim 1, wherein said signal sequence is ~~selected from a protein selected from the group consisting of~~ epidermal growth factor~~, insulin, nerve growth factor, platelet-derived growth factor, glucagon, ICAM-1, B7-1, TrkA, platelet-derived growth factor receptor, and CD58~~.

6. (Previously presented) The method according to claim 1, wherein said purification epitope tag is a hexa-histidine epitope tag.

7. (Previously presented) The method according to claim 1, wherein said myristoylation-encoding sequence is a c-Src myristoylation-encoding sequence.

8. (Original) An expression vector for generating a tethered extracellular domain protein comprising:

a 5' signal sequence,

a purification epitope tag;

a sequence coding for the extracellular domain of a membrane protein; and

a 3' anchor sequence.

9. (Original) The vector according to claim 8, wherein said anchor sequence is a GPI sequence.

10. (Previously presented) The vector according to claim 8, wherein said purification epitope tag is a hexa-histidine epitope tag.

11. (Original) An expression vector for generating a tethered intracellular domain protein comprising:

a 5' signal sequence for myristoylation;

a sequence coding for the intracellular domain of a membrane protein; and

a 3' purification epitope tag.

12. (Original) The vector according to claim 11, wherein said purification epitope tag is a hexa-histidine epitope tag.

13. (New - Withdrawn) The method according to claim 1, wherein said mammalian cells are HEK-293 cells.

14. (New - Withdrawn) The method according to claim 1, wherein said signal sequence is selected from a protein selected from the group consisting of insulin, nerve growth factor, platelet-derived growth factor, glucagon, ICAM-1, B7-1, TrkA, platelet-derived growth factor receptor, and CD58.